


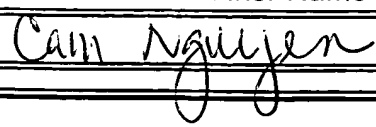
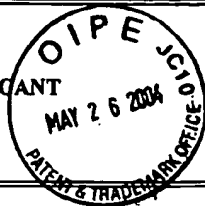


ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention	Chemically and Thermally Stabilized Alumina for Fischer-Tropsch Catalysts						
Application Number:		10/657585					
Confirmation Number:		9875					
First Named Applicant:		Dan Frankel					
Attorney Docket Number:		1856-33100 (9660.0-02)					
Search string:		(4413064 or 4880763).pn.					
US Patent Documents							
Note: Applicant is not required to submit a paper copy of cited US Patent Documents							
init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
	1	4413064	1983-11-01	Beuther et al.			
	2	4880763	1989-11-04	Eri et al.			
Remarks							
Note: Remarks are not for responding to an office action.							
<p>The submission of this Supplemental electronic Information Disclosure Statement (eIDS) is not an admission that the art cited is "prior" with respect to the present invention, nor is it a representation that no better art exists. Applicants hereby reserve the right to swear behind or otherwise disprove any alleged "prior" nature of any art cited should the facts support and the situation warrant such an action. It is submitted that the art cited does not constitute a bar to the patentability of Applicants' invention under 35 U.S.C. 102 or 103.</p>							
Signature							
Examiner Name				Date			
				4/13/05			

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
 (Use several sheets if necessary)

 Atty. Docket No.
 1856-33100

 Serial No.
 10/657,585

 Applicant
 Dan Fraenkel

 Filing Date
 September 8, 2003

 Group
 +621

1754

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
CM	AA	6271432	08/07/2001	Singleton, et al.	585	700	12/20/2000
CM	AB	6537945	03/25/2003	Singleton, et al.	502	327	03/16/2001

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	Translation	
							YES	NO

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

Cam Nguyen

DATE CONSIDERED

4/13/05

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/657,585
Filing Date	Sept. 8, 2003
First Named Inventor	Dan Fraenkel
Art Unit	4821 1754
Examiner Name	Not Yet Assigned
Attorney Docket Number	1856-33100

Sheet 1 of 4

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
CAN		US- 2,892,858	06-30-1959	Ziegler	
CAN		US- 3,852,190	12-03-1974	Buss et al.	
CAN		US- 4,012,313	03-15-1977	Buss et al.	
CAN		US- 4,063,851	12-20-1977	Weldon	
CAN		US- 4,224,192	09-23-1980	Foster et al.	
CAN		US- 4,387,085	06-07-1983	Fanelli et al.	
CAN		US- 4,617,183	10-14-1986	Lewis et al.	
CAN		US- 4,708,945	11-24-1987	Murrell et al.	
CAN		US- 4,744,974	05-17-1988	Lewis et al.	
CAN		US- 4,831,007	05-16-1989	Murrell et al.	
CAN		US- 4,891,127	01-02-1990	Murrell et al.	
CAN		US- 5,055,019	10-08-1991	Meyer et al.	
CAN		US- 5,102,851	04-07-1992	Eri et al.	
CAN		US- 5,116,879	05-26-1992	Eri et al.	
CAN		US- 5,134,107	07-28-1992	Narula	
CAN		US- 5,232,580	08-03-1993	Le et al.	
CAN		US- 5,837,634	11-17-1998	McLaughlin et al.	
CAN		US- 6,063,358	05-16-2000	Lindquist et al.	
CAN		US- 6,224,846	05-01-2001	Hurlburt et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	†*
		Country Code ² Number ³ Kind Code ⁴ (if known)				
CAN		GB 640,965	08-02-1950	Anglo-Iranian Oil Co.		
CAN		GB 2 352 194 A	01-24-2001	Sasol Technology		
CAN		WO 02/07883 A2	01-31-2002	Sasol Technology		
CAN		WO 99/42214	08-26-1999	Sasol Technology		

Examiner
Signature

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Completeness of Known			
		Application Number	10/657,585		
		Filing Date	September 8, 2003		
		First Named Inventor	Dan Fraenkel		
		Group Art Unit	4621 1754		
Examiner Name	Not Yet Assigned				
Sheet	3	of	4	Attorney Docket Number	1856-33100

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate) title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issued number(s), publisher, city and/or country where published.	T ²
can		IHNS SCHULZ; Short History and Present Trends of Fischer-Tropsch Synthesis; Abstract; Universitat Karlsruhe, Germany; 10 pages.	
can		M. ABSI-HALABI, et al.; "Studies on Pore Size Control of Alumina: Preparation of Alumina Catalyst Extrudates with Large Unimodal Pore Structure by Low Temperature Hydrothermal Treatment"; Preparation of Catalysts V, 1991 Elsevier Science Publishers B.V., Amsterdam, pp. 155 - 163.	
can		ALCOA WORLD CHEMICAL; "High purity, high density, boehmite aluminas"; ALCOA Product Data USA/6070-RO4/0801; 2 pages.	
can		ALCOA WORLD CHEMICAL; "High purity, high density, boehmite aluminas"; ALCOA Product Data Sheet USA/6070-RO4/0801; 2 pages.	
can		CONDEA; "High purity activated aluminas PURALOX, CATALOX"; Product Information Sheet 10/99; 6 pages	
can		RONG-SHENG ZHOU, et al.; "Structures and Transformation Mechanisms of the η , γ and θ Transition Aluminas"; International Union of Crystallography 1991; Institute for Ceramic Superconductivity, New York State College of Ceramics, Alfred University, Alfred, NY 14802, USA; pp. 617-630	
can		RICHARD L. SMITH, et al.; "The Influence of Diaspore Seeding and Chloride Concentration on the Transformation of 'Diasporic' Precursors to Corundum"; Journal of the American Ceramic Society, October 16, 2000; 31 pages.	
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can		H.C. STUMPF, et al.; "Thermal Transformations of Aluminas and Alumina Hydrates"; Industrial and Engineering Chemistry, Vol. 42, No. 7, July 1950; pages 1398-1403.	
can		SHU-HUI CAI, et al.; "Atomic Scale Mechanism of the Transformation of γ -Alumina to θ -Alumina"; The American Physical Society 2002; Physical Review Letters, Vol. 89, No. 23; December 2, 2002; 4 pages.	
can		ZHONG-WEN LIU, et al.; "Partial Oxidation of Methane Over Nickel Catalysts Supported on Various Aluminas"; Korean J. Chem. Eng., Vol. 19, No. 5, pages 735-741 (2002).	

Examiner Signature	Cam Nguyen	Date Considered	4/13/05
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		Examiner Name	Not Yet Assigned		
Sheet	4	of	4	Attorney Docket Number	1856-33100

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate) title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issued number(s), publisher, city and/or country where published.	T ²
can		HYUN-SEOG ROH, et al.; "Partial Oxidation of Methane Over Ni/θ-A1 ₂ O ₃ Catalysts"; Chemistry Letters 2001; March 19, 2001; pages 666-667.	
can		HYUN-SEOG ROH, et al.; "Partial Oxidation of Methane Over Ni/Ce-ZrO ₂ /θ-A1 ₂ O ₃ "; Korean J. Chem. Eng., Vol. 19, No. 5; pages 742-748 (2002).	
can		HIROMICHI ARAI, et al.; "Thermal stabilization of catalysts supports and their application to high-temperature catalytic combustion"; Applied Catalysis A: General 138 (1996); pages 161-176; Elsevier Science Publishers B.V., Amsterdam.	
can		BERNARD BEGUIN et al.; "Stabilization of alumina by addition of lanthanum"; Applied Catalysis A: General 138 (1996); pages 161-176; Elsevier Science Publishers B.V., Amsterdam.	
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can		H. SCHAPER, et al.; "The Influence of Lanthanum Oxide on the Thermal Stability of Gamma Alumina Catalyst Supports"; Applied Catalysis, Vol. 7 (1983), pages 211-220; Elsevier Science Publishers B.V., Amsterdam.	
can		JALAJAKUMARI NAIR, et al.; "Pore Structure Evolution of Lanthana-Alumina Systems Prepared Through Coprecipitation"; J. Am Ceram. Soc., Vol. 83, No. 8; pages 1942-46 (2000).	
can		S. N. RASHKEEV, et al.; "Transition metal atoms on different alumina phases: The role of subsurface sites on catalytic activity"; Physical Review B, Vol. 67, No. 115414; 4 pages.	
can		HENNIE SCHAPER, et al.; "Thermal Stabilization of High Surface Area Lumina"; Solid State Ionics, Vol. 16 (1985), pages 261-266.	
can		XIAOYIN CHEN, et al.; "High temperature stabilization of alumina modified b lanthanum species"; Applied Catalysis A: General, Vol. 205 (2001); pages 159-172.	
can		S. SUBRAMANIAN, et al.; "Characterization of lanthana/alumina composite oxides"; Journal of Molecular Catalysis, Vol. 69 (1991); pages 235-245.	
can		P. SOUZA SANTOS, et al.; "Standard Transition Aluminas. Electron Microscopy Studies"; Materials Research, Vol. 3, No. 4; pages 104-114, 2000.	

Examiner Signature	Cam Nguyen	Date Considered	4/13/05
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